

Stellarix Highlights How Carbon Capture Solutions Support the Evolving Energy Sector

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Body

PR NewswireStellarix shares how carbon capture technologies like CCS and DAC are helping energy companies reduce emissions and meet global sustainability goals.LOS ANGELES, April 25, 2025 /PRNewswire-PRWeb/ -- As global efforts to combat climate change intensify, energy companies are facing growing pressure to reduce their carbon footprint. Traditional energy production methods are no longer enough to meet evolving environmental expectations. In response, many businesses are turning to carbon capture technologies to support their transition toward cleaner operations.Stellarix, a global leader in sustainability and R&D strategy, is helping energy companies implement effective carbon capture initiatives that balance regulatory compliance, innovation, and long-term environmental goals. With expertise in carbon capture, utilization, and storage (CCUS), Stellarix develops tailored solutions that enable companies to reduce emissions while maintaining growth.The Growing Importance of Carbon Capture in EnergyCarbon capture and sequestration (CCS) is gaining widespread adoption as a practical solution to reduce greenhouse gas emissions.

According to the International Energy Agency (IEA), CCS could account for up to 15% of the emissions reductions required to reach net-zero targets by 2050. These technologies capture CO₂ directly from industrial sources like power plants and factories, preventing it from being released into the atmosphere.With clients in over 70 countries and more than 15 years of experience, Stellarix supports energy companies at every step of their carbon capture journey. From planning and R&D to commercialization, the company's deep industry knowledge helps organizations deploy sustainable strategies that are both efficient and future-ready.How Stellarix Supports the Energy SectorStellarix offers a range of services designed to help energy companies integrate carbon capture technologies effectively. These include:Strategic Foresight: Identifying emerging risks and opportunities to ensure carbon capture efforts are aligned with business and sustainability goals.R&D Strategy: Guiding businesses from early-stage research to product development and market launch of carbon capture technologies.Sustainability Services: Developing tailored roadmaps to help businesses reduce their environmental impact and meet ESG standards.CCS Implementation: Advising on the design and deployment of carbon capture and storage solutions to efficiently manage industrial emissions.Partner Scouting: Connecting clients with strategic partners and stakeholders to drive innovation and accelerate project success.Startup Support: Assisting new and emerging energy ventures in launching scalable carbon capture technologies.Emerging Trends in Carbon CaptureSeveral technologies are driving innovation in the carbon capture space, including:Carbon Capture and Storage (CCS): A mature technology that captures up to 90% of CO₂ emissions from industrial processes and stores it underground.Direct Air Capture (DAC): Captures CO₂ directly from the atmosphere, offering new opportunities for offsetting emissions.Bioenergy Carbon Capture: Combines renewable energy generation with carbon removal, creating a dual benefit of clean energy and emissions reduction.CCUS (Carbon Capture, Utilization, and Storage): Transforms captured CO₂ into valuable products such as fuels and industrial chemicals, reducing waste while adding economic value.These innovations are critical to helping the energy sector meet growing regulatory demands and contribute to climate mitigation efforts.A Trusted Partner for the Net-Zero TransitionAs the energy landscape shifts, companies need

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experienced partners to navigate the complexities of sustainability and compliance. Stellarix provides end-to-end guidance and technical support to help clients adopt carbon capture in a way that aligns with their operational and environmental goals. The Global CCS Institute projects that global CO₂ capture capacity is expected to double to more than 100 million tonnes per year as new facilities come online. This signals growing momentum in the adoption of carbon capture technologies across industries. Stellarix is committed to staying ahead of regulatory changes and equipping businesses with the tools they need to stay competitive, compliant, and environmentally responsible. About Stellarix Stellarix is a global innovation and sustainability consulting firm that specializes in helping energy companies implement advanced carbon capture strategies. With over 15 years of experience and a footprint in 70+ countries, Stellarix delivers R&D planning, sustainability services, and CCUS solutions that support a more sustainable future. **Media Contact** Sonam Rara, Stellarix Consultancy Services Pvt. Ltd., 0141 492 0704, <https://stellarix.com/> View original content to download multimedia: <https://www.prweb.com/releases/stellarix-highlights-how-carbon-capture-solutions-support-the-evolving-energy-sector-302438301.html> SOURCE Stellarix

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